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13	8	(hierarch$5 and predefin$4) near4 term$1 and standard$4 and output and @ad<20010515	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/31 18:08
14	22	(clinic$3 and ("adverse event" or "adverse events") and statistic$3 and @ad<20010515) and hierarch$7	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/31 18:09
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16	53	("adverse events" or "adverse event") and statist$4 and (hierarch$5 or tree$1) and @ad<20010515	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/31 18:10

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1 Semantic indexing for a complete subject discipline

Yi-Ming Chung, Qin He, Kevin Powell, Bruce Schatz

August 1999 **Proceedings of the fourth ACM conference on Digital libraries**

Full text available: pdf(256.74 KB) Additional Information: full citation, references, index terms

Keywords: MEDLINE, MEDSPACE, concept space, interspace, medical informatics, scalable semantics, semantic indexing, semantic retrieval

2 Object-oriented design and analyses for advanced application development: progress towards a new frontier

H. J. C. Ellis, Steven A. Demurjian

March 1993 **Proceedings of the 1993 ACM conference on Computer science**

Full text available: pdf(793.65 KB) Additional Information: full citation, abstract, references, citings, index terms

As we approach the mid-1990s, we have continued to see an increase in the power and capacities of workstations, allowing us to design and develop advanced applications that transcend the limitations of even five years ago. If we are to develop these applications, we must find design techniques that can support their intricate and complex requirements. Additionally, if we can improve the design process, we can more precisely characterize these applications with respect to their requirements. ...

3 GERTIS: a Dempster-Shafer approach to diagnosing hierarchical hypotheses

John Yen

May 1989 **Communications of the ACM**, Volume 32 Issue 5

Full text available: pdf(1.40 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Gertis—a prototype expert system—not only demonstrates the feasibility of applying the Dempster-Shafer-based reasoning model to diagnosing hierarchically related hypotheses, but also suggests ways to generate better explanations by using knowledge about the structure of the hypothesis space and knowledge about the intended effects of the rules.

4 Exception handling in agent systems

Mark Klein, Chrysanthos Dellarocas

April 1999 **Proceedings of the third annual conference on Autonomous Agents**

Full text available: pdf(778.49 KB) Additional Information: full citation, references, citings, index terms

Keywords: exception failure handling detection and resolution

5 Lab report special section: the University of Massachusetts Center for Intelligent Information Retrieval

W. Bruce Croft

March 1995 **ACM SIGIR Forum**, Volume 29 Issue 1

Full text available: pdf(684.53 KB) Additional Information: full citation, index terms

6 Aspects of the taxonomic relation in the biomedical domain

Anita Burgun, Olivier Bodenreider

October 2001 **Proceedings of the international conference on Formal Ontology in Information Systems - Volume 2001**

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, citings, index terms

Taxonomies are commonly used for organizing knowledge, particularly in biomedicine where the taxonomy of living organisms and the classification of diseases are central to the domain. The principles used to produce taxonomies are either intrinsic (properties of the partial ordering relation) or added to make knowledge more manageable (opposition of siblings and economy). The applicability of these principles in the biomedical domain is presented using the Unified Medical Language System ...

Keywords: biomedical domain, ontology, taxonomic relation, unified medical language system

7 An object-oriented information model for a patient definition and management system

Fernando Ferri, Fabrizio L. Ricci, Fabrizio Consorti, Domenico M. Pisanelli

February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

Full text available: pdf(931.00 KB) Additional Information: full citation, references, index terms

Keywords: data modelling, object-oriented modelling, patient folder

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Stephen C. Lloyd, B. Altan Brantley, W. E. Hammond, William W. Stead, Howard K. Thompson

January 1971 **Proceedings of the 1971 26th annual conference**

Full text available: pdf(502.22 KB) Additional Information: full citation, abstract, references, index terms

Here is described an information system for the accumulation, storage, analysis, retrieval and output of medical data. Particular attention has been given to flexibility of input devices, and to readability of output. Primary emphasis has been on making the computer a more accessible tool to the physician.

Keywords: Automated medical history, Interactive questionnaire, Medical information system, Patient reaction, Questionnaire development

9 A fuzzy ontology for medical document retrieval
David Parry
January 2004 **Proceedings of the second workshop on Australasian information security, Data Mining and Web Intelligence, and Software Internationalisation - Volume 32**
Full text available: pdf(216.48 KB) Additional Information: full citation, abstract, references

Ontologies represent a method of formally expressing a shared understanding of information, and have been seen by many authors as a prerequisite for the "Semantic web". A mapping between query terms and members of an ontology is usually a key part of any ontology enhanced searching tool. However the relative importance of a particular mapping to an overloaded term may be different for different users, and this information is vital for accurate satisfaction of a query.One way of overcoming this p ...

Keywords: fuzzy logic, information retrieval, ontology, ontology combination

10 Augmenting thesauri for information systems
Roy Rada, Brian K. Martin
October 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 4
Full text available: pdf(1.13 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A thesaurus can be a critical component of an office information system. Access to various sets of documents can be facilitated by thesauri and by the connections that are made among thesauri. In the projects described in this paper, the thesauri are stored and manipulated through a relational database management system. The system detects inheritance properties in a thesaurus and uses them to guide a human expert in decisions about how to augment the thesaurus. New strategies will extend o ...

11 Modeling disease processes for drug development: bridging the gap between quantitative and heuristic models
Pamela K. Fink, L. Tandy Herren
November 1996 **Proceedings of the 28th conference on Winter simulation**
Full text available: pdf(850.28 KB) Additional Information: full citation, references

12 Using the Internet to improve knowledge diffusion in medicine
William M. Detmer, Edward H. Shortliffe
August 1997 **Communications of the ACM**, Volume 40 Issue 8
Full text available: pdf(576.05 KB) Additional Information: full citation, references, citings, index terms, review

13 Summarization and question answering: Using librarian techniques in automatic text summarization for information retrieval
Min-Yen Kan, Judith L. Klavans
July 2002 **Proceedings of the second ACM/IEEE-CS joint conference on Digital libraries**
Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, index terms

A current application of automatic text summarization is to provide an overview of relevant documents coming from an information retrieval (IR) system. This paper examines how

Centrifuser, one such summarization system, was designed with respect to methods used in the library community. We have reviewed these librarian expert techniques to assist information seekers and codified them into eight distinct strategies. We detail how we have operationalized six of these strategies in Centrifuser by c ...

Keywords: automatic text summarization, information retrieval user interfaces, reference librarian techniques

14 Health care information systems: a personal historic review
M. F. Collen
December 1987 **Proceedings of ACM conference on History of medical informatics**
Full text available: pdf(1.14 MB) Additional Information: full citation, references, index terms

15 Documents and professional practice: "bad" organisational reasons for "good" clinical records
Christian Heath, Paul Luff
November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work**
Full text available: pdf(1.36 MB) Additional Information: full citation, references, citings, index terms

Keywords: categorisation, documentary practices, record keeping

16 Computer-human interface solutions for emergency medical care
Thomas G. Holzman
May 1999 **interactions**, Volume 6 Issue 3
Full text available: pdf(528.40 KB) html(45.26 KB) Additional Information: full citation, references, citings, index terms, review

17 Knowledge and representation: Leveraging a common representation for personalized search and summarization in a medical digital library
Kathleen R. McKeown, Noemie Elhadad, Vasileios Hatzivassiloglou
May 2003 **Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries**
Full text available: pdf(116.18 KB) Additional Information: full citation, abstract, references, citings, index terms

Despite the large amount of online medical literature, it can be difficult for clinicians to find relevant information at the point of patient care. In this paper, we present techniques to personalize the results of search, making use of the online patient record as a sophisticated, pre-existing user model. Our work in *PERSIVAL*, a medical digital library, includes methods for re-ranking the results of search to prioritize those that better match the patient record. It also generates summa ...

18 LifeLines: visualizing personal histories
Catherine Plaisant, Brett Milash, Anne Rose, Seth Widoff, Ben Shneiderman
April 1996 **Proceedings of the SIGCHI conference on Human factors in computing systems: common ground**
Full text available: pdf(1.14 MB) Additional Information: full citation, references, citings, index terms

html(40.15 KB)

Keywords: history, justice, medical record, overview, personal record, screen design, screen management, timeline, visualization

19 Voice-enabled structured medical reporting

Mary-Marshall Teel, Rachael Sokolowski, David Rosenthal, Matt Belge

January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: pdf(1.01 MB) Additional Information: full citation, references, citings, index terms

Keywords: EHR, SGML, clinical reporting, dictation, speech interface design, structured reporting, voice recognition

20 Modeling class hierarchies with contradictions

A. Borgida

June 1988 **ACM SIGMOD Record , Proceedings of the 1988 ACM SIGMOD international conference on Management of data**, Volume 17 Issue 3

Full text available: pdf(1.27 MB) Additional Information: full citation, abstract, references, citings, index terms

One characteristic feature of object-oriented systems and knowledge bases (semantic data models, conceptual modeling languages, AI frames) is that they offer as a basic paradigm the notion of objects grouped into classes, which are themselves organized in subclass hierarchies. Through ideas such as inheritance and bounded polymorphism, this feature supports the technique of "abstraction by generalization", which has been argued to be of importance in designing I ...

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February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

Full text available: pdf(931.00 KB) Additional Information: full citation, references, index terms

Keywords: data modelling, object-oriented modelling, patient folder

2 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

3 Aspects of the taxonomic relation in the biomedical domain

Anita Burgun, Olivier Bodenreider

October 2001 **Proceedings of the international conference on Formal Ontology in Information Systems - Volume 2001**

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, citings, index terms

Taxonomies are commonly used for organizing knowledge, particularly in biomedicine where the taxonomy of living organisms and the classification of diseases are central to the domain. The principles used to produce taxonomies are either intrinsic (properties of the partial ordering relation) or added to make knowledge more manageable (opposition of siblings and economy). The applicability of these principles in the biomedical domain is presented using the Unified Medical Language System ...

Keywords: biomedical domain, ontology, taxonomic relation, unified medical language system

4 Industrial/government track: Empirical Bayesian data mining for discovering patterns in post-marketing drug safety

David M. Fram, June S. Almenoff, William DuMouchel

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(461.25 KB) Additional Information: full citation, abstract, references, index terms

Because of practical limits in characterizing the safety profiles of therapeutic products prior to marketing, manufacturers and regulatory agencies perform post-marketing surveillance based on the collection of adverse reaction reports ("pharmacovigilance").The resulting databases, while rich in real-world information, are notoriously difficult to analyze using traditional techniques. Each report may involve multiple medicines, symptoms, and demographic factors, and there is no easily linked inf ...

Keywords: association rules, data mining, empirical Bayes methods, pharmacovigilance, post-marketing surveillance

5 Fit, failure, and the house of horrors: toward a configurational theory of IS project failure



C. Sauer, G. Southon, C. N. G. Dampney

December 1997 **Proceedings of the eighteenth international conference on Information systems**

Full text available: pdf(74.83 KB) Additional Information: full citation, references, citings

Keywords: IS failure, IS project management, clinical information systems, configurational theory, organizational management, top management support

6 Computer applications in health care (CAHC): Potential prevention of medical errors in casualty surgery by using information technology



R. Blaser, M. Schnabel, D. Mann, P. Jancke, K. A. Kuhn, R. Lenz

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(149.68 KB) Additional Information: full citation, abstract, references, index terms

Recent studies on adverse events in medicine have shown that errors in medicine are not rare and may cause severe harm. Quality problems in discharge letters may be a source of medical error. We have analyzed 150 discharge letters of an outpaitient clinic for casualty surgery in order to identify and to classify typical mistakes. A Failure Mode and Effect Analysis has been initiated in order to estimate the risk associated with different failure types. Possible IT solutions to prevent the identi ...

Keywords: Failure Mode and Effect Analysis, demand driven system evolution, electronic discharge letters, medical error prevention, structured reporting

7 Session 5: less is more: Information security is information risk management



Bob Blakley, Ellen McDermott, Dan Geer

September 2001 **Proceedings of the 2001 workshop on New security paradigms**

Full text available: pdf(756.49 KB) Additional Information: full citation, abstract, references, citings, index terms

Information security is important in proportion to an organization's dependence on information technology. When an organization's information is exposed to risk, the use of information security technology is obviously appropriate. Current information security technology, however, deals with only a small fraction of the problem of information risk. In fact, the evidence increasingly suggests that information security technology does not reduce information risk very effectively.This paper argues t ...

8 LifeLines: visualizing personal histories

Catherine Plaisant, Brett Milash, Anne Rose, Seth Widoff, Ben Shneiderman

April 1996 **Proceedings of the SIGCHI conference on Human factors in computing systems: common ground**

Full text available: pdf(1.14 MB) html(40.15 KB) Additional Information: full citation, references, citings, index terms

Keywords: history, justice, medical record, overview, personal record, screen design, screen management, timeline, visualization

9 Cost/benefit based adaptive dialog: case study using empirical medical practice norms and intelligent split menus

Jim Warren

January 2001 **Australian Computer Science Communications , Proceedings of the 2nd Australasian conference on User interface**, Volume 23 Issue 5

Full text available: pdf(643.60 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms, review

The notion of an adaptive user interface, one that accommodates user needs based on knowledge of the task at hand, is compelling but difficult to make practical. This paper examines models of the utility (as balancing of cost and benefit) in the initiation of task-specific dialog based on conditional probability of user goals in context. Illustrations in this paper are based on an empirical model of General Practice (GP) medicine as derived from a large database of GP/patient encounters. Applica ...

10 Demonstration session 1: ClassMiner: mining medical video for scalable skimming and summarization

Xingquan Zhu, Jianping Fan, Mohand-Said Hacid, Ahmed K. Elmagarmid

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available: pdf(119.05 KB) Additional Information: full citation, references

Keywords: event detection, scalable skimming, scene detection, video data mining, video summarization

11 An example of using computer simulation to predict pharmaceutical costs and outcomes

Michael T. Halpern, Ruth E. Brown, Dennis A. Revicki, Alkis G. Togias

December 1994 **Proceedings of the 26th conference on Winter simulation**

Full text available: pdf(526.60 KB) Additional Information: full citation, references, index terms

12 Documents and professional practice: "bad" organisational reasons for "good" clinical records

Christian Heath, Paul Luff

November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work**

Full text available: pdf(1.36 MB) Additional Information: full citation, references, citings, index terms

Keywords: categorisation, documentary practices, record keeping

13 Applications: A context-related authorization and access control method based on RBAC:

Marc Wilikens, Simone Feriti, Alberto Sanna, Marcelo Masera

June 2002 **Proceedings of the seventh ACM symposium on Access control models and technologies**

Full text available: pdf(260.70 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes an application of authorization and access control based on the Role Based Access Control (RBAC) method and integrated in a comprehensive trust infrastructure of a health care application. The method is applied to a health care business process that involves multiple actors accessing data and resources needed for performing clinical and logistics tasks in the application. The notion of trust constituency is introduced as a concept for describing the context of authorisation. ...

Keywords: role based access control (RBAC), secure health care system, trust infrastructure

14 Access control policy implementation: On the role of roles: from role-based to role-sensitive access control

Xuhui Ao, Naftaly H. Minsky

June 2004 **Proceedings of the ninth ACM symposium on Access control models and technologies**

Full text available: pdf(212.00 KB) Additional Information: full citation, abstract, references, index terms

This paper maintains that for an access-control (AC) mechanism tosupport a wide range of policies, it is best to dispense with any built-insemantics for roles in the mechanism itself---be it the semantics of RBAC, orany other---leaving such semantics to be defined by particular policies. Inother words, an AC mechanism should be sensitive to roles, allowingspecific policies to take roles into account for their authorizationdecisions. But it should not be based on any particular interpretationof t ...

Keywords: access control policy specification and decentralized enforcement, law-governed interaction, role-based access control, security

15 Modeling disease processes for drug development: bridging the gap between quantitative and heuristic models

Pamela K. Fink, L. Tandy Herren

November 1996 **Proceedings of the 28th conference on Winter simulation**

Full text available: pdf(350.28 KB) Additional Information: full citation, references

16 A generalized medical information system (GEMISCH) for practicing physicians

Stephen C. Lloyd, B. Altan Brantley, W. E. Hammond, William W. Stead, Howard K. Thompson

January 1971 **Proceedings of the 1971 26th annual conference**

Full text available: pdf(502.22 KB) Additional Information: full citation, abstract, references, index terms

Here is described an information system for the accumulation, storage, analysis, retrieval

and output of medical data. Particular attention has been given to flexibility of input devices, and to readability of output. Primary emphasis has been on making the computer a more accessible tool to the physician.

Keywords: Automated medical history, Interactive questionnaire, Medical information system, Patient reaction, Questionnaire development

17 Special issue on spatial database systems: A semantic modeling approach for image retrieval by content

Wesley W. Chu, Ion T. Ieong, Ricky K. Taira

October 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 4

Full text available: pdf(1.68 MB) Additional Information: full citation, abstract, references, citings

We introduce a semantic data model to capture the hierarchical, spatial, temporal, and evolutionary semantics of images in pictorial databases. This model mimics the user's conceptual view of the image content, providing the framework and guidelines for preprocessing to extract image features. Based on the model constructs, a spatial evolutionary query language (SEQL), which provides direct image object manipulation capabilities, is presented. With semantic information captured in the model, spa ...

Keywords: image, medical, multimedia databases, spatial query processing, temporal evolutionary query processing

18 The complexity of logic-based abduction

Thomas Eiter, Georg Gottlob

January 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 1

Full text available: pdf(3.02 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Abduction is an important form of nonmonotonic reasoning allowing one to find explanations for certain symptoms or manifestations. When the application domain is described by a logical theory, we speak about logic-based abduction. Candidates for abductive explanations are usually subjected to minimality criteria such as subset-minimality, minimal cardinality, minimal weight, or minimality under prioritization of individual hypotheses. This paper presents a comprehensive com ...

Keywords: abduction, complexity analysis, diagnosis, propositional logic, reasoning

19 PERSIVAL, a system for personalized search and summarization over multimedia healthcare information

Kathleen R. McKeown, Shih-Fu Chang, James Cimino, Steven Feiner, Carol Friedman, Luis Gravano, Vasileios Hatzivassiloglou, Steven Johnson, Desmond A. Jordan, Judith L. Klavans, André Kushniruk, Vimla Patel, Simone Teufel

January 2001 **Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(369.13 KB) Additional Information: full citation, abstract, references, citings, index terms

In healthcare settings, patients need access to online information tha t can help them understand their medical situation. Physicians need information that is clinically relevant to an individual patient. In this paper, we present our progress on developing a system, PERSIVAL, that is designed to provide personalized access to a distributed patient care digital library. Using the secure, online patient records at New York Presbyterian Hospital as a user model, PERSIVAL's components tailor s ...

Keywords: medical digital library, multimedia, natural language, personalization, query interface, search, summarization

20 The FINITE STRING newsletter: Abstracts of current literature

American Journal of Computational Linguistics Staff

October 1981 **Computational Linguistics**, Volume 7 Issue 4

Full text available: pdf(1.61 MB) Additional Information: full citation

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1 Computer applications in health care (CAHC): Potential prevention of medical errors in casualty surgery by using information technology

R. Blaser, M. Schnabel, D. Mann, P. Jancke, K. A. Kuhn, R. Lenz

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

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2 An object-oriented information model for a patient definition and management system

Fernando Ferri, Fabrizio L. Ricci, Fabrizio Consorti, Domenico M. Pisanelli

February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

Full text available: pdf(931.00 KB) Additional Information: full citation, references, index terms

Keywords: data modelling, object-oriented modelling, patient folder

3 Applications: A context-related authorization and access control method based on RBAC:

Marc Wilikens, Simone Feriti, Alberto Sanna, Marcelo Masera

June 2002 **Proceedings of the seventh ACM symposium on Access control models and technologies**

Full text available: pdf(260.70 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes an application of authorization and access control based on the Role Based Access Control (RBAC) method and integrated in a comprehensive trust infrastructure

of a health care application. The method is applied to a health care business process that involves multiple actors accessing data and resources needed for performing clinical and logistics tasks in the application. The notion of trust constituency is introduced as a concept for describing the context of authorisation. ...

Keywords: role based access control (RBAC), secure health care system, trust infrastructure

4 Aspects of the taxonomic relation in the biomedical domain

Anita Burgun, Olivier Bodenreider

October 2001 **Proceedings of the international conference on Formal Ontology in Information Systems - Volume 2001**

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, citings, index terms

Taxonomies are commonly used for organizing knowledge, particularly in biomedicine where the taxonomy of living organisms and the classification of diseases are central to the domain. The principles used to produce taxonomies are either intrinsic (properties of the partial ordering relation) or added to make knowledge more manageable (opposition of siblings and economy). The applicability of these principles in the biomedical domain is presented using the Unified Medical Language System ...

Keywords: biomedical domain, ontology, taxonomic relation, unified medical language system

5 Concept-based knowledge discovery in texts extracted from the Web

Stanley Loh, Leandro Krug Wives, José Palazzo M. de Oliveira

June 2000 **ACM SIGKDD Explorations Newsletter**, Volume 2 Issue 1

Full text available: pdf(1.28 MB) Additional Information: full citation, index terms

Keywords: categorization, data mining, information extraction, knowledge discovery, text mining

6 Fit, failure, and the house of horrors: toward a configurational theory of IS project failure

C. Sauer, G. Southon, C. N. G. Dampney

December 1997 **Proceedings of the eighteenth international conference on Information systems**

Full text available: pdf(74.53 KB) Additional Information: full citation, references, citings

Keywords: IS failure, IS project management, clinical information systems, configurational theory, organizational management, top management support

7 Contrasting the application of soft systems methodology and reflective practice to the development of organizational knowledge and learning — a review of two cases in the UK National Health Service

Christopher Bond, Sandi Kirkham

April 1999 **Proceedings of the 1999 ACM SIGCPR conference on Computer personnel**

research
Full text available: pdf(1.38 MB) Additional Information: full citation, references, index terms

Keywords: UK NHS, epistemology, organizational learning, reflective practice, soft systems methodology

8 Episodic skeletal-plan refinement based on temporal data
Samson W. Tu, Michael G. Kahn, Mark A. Musen, L. M. Fagan, Jay C. Ferguson
December 1989 **Communications of the ACM**, Volume 32 Issue 12

Full text available: pdf(4.07 MB) Additional Information: full citation, abstract, references, citings, index terms, review

ONCOCIN is a medical expert system that extends the skeletal-planning technique to an applciation area where the history of past events and the duration of actions are important. The system's knowledge base is designed to reflect a hierarchical model of the domain, and its control and inference mechanisms encourage a mixed-initiative style of interaction between the computer and the user.

9 Cost/benefit based adaptive dialog: case study using empirical medical practice norms and intelligent split menus
Jim Warren
January 2001 **Australian Computer Science Communications , Proceedings of the 2nd Australasian conference on User interface**, Volume 23 Issue 5

Full text available: pdf(843.80 KB) Additional Information: full citation, abstract, references, citings, index terms, review
Publisher Site

The notion of an adaptive user interface, one that accommodates user needs based on knowledge of the task at hand, is compelling but difficult to make practical. This paper examines models of the utility (as balancing of cost and benefit) in the initiation of task-specific dialog based on conditional probability of user goals in context. Illustrations in this paper are based on an empirical model of General Practice (GP) medicine as derived from a large database of GP/patient encounters. Applica ...

10 Industrial/government track: Empirical Bayesian data mining for discovering patterns in post-marketing drug safety
David M. Fram, June S. Almenoff, William DuMouchel
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(461.25 KB) Additional Information: full citation, abstract, references, index terms

Because of practical limits in characterizing the safety profiles of therapeutic products prior to marketing, manufacturers and regulatory agencies perform post-marketing surveillance based on the collection of adverse reaction reports ("pharmacovigilance").The resulting databases, while rich in real-world information, are notoriously difficult to analyze using traditional techniques. Each report may involve multiple medicines, symptoms, and demographic factors, and there is no easily linked inf ...

Keywords: association rules, data mining, empirical Bayes methods, pharmacovigilance, post-marketing surveillance

11 PERSIVAL, a system for personalized search and summarization over multimedia healthcare information

Kathleen R. McKeown, Shih-Fu Chang, James Cimino, Steven Feiner, Carol Friedman, Luis Gravano, Vasileios Hatzivassiloglou, Steven Johnson, Desmond A. Jordan, Judith L. Klavans, André Kushniruk, Vimla Patel, Simone Teufel
January 2001 **Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(369.13 KB) Additional Information: full citation, abstract, references, citings, index terms

In healthcare settings, patients need access to online information tha t can help them understand their medical situation. Physicians need information that is clinically relevant to an individual patient. In this paper, we present our progress on developing a system, PERSIVAL, that is designed to provide personalized access to a distributed patient care digital library. Using the secure, online patient records at New York Presbyterian Hospital as a user model, PERSIVAL's components tailor s ...

Keywords: medical digital library, multimedia, natural language, personalization, query interface, search, summarization

12 A model of OASIS role-based access control and its support for active security
Jean Bacon, Ken Moody, Walt Yao
November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4

Full text available: pdf(362.06 KB) Additional Information: full citation, abstract, references, citings, index terms

OASIS is a role-based access control architecture for achieving secure interoperation of services in an open, distributed environment. The aim of OASIS is to allow autonomous management domains to specify their own access control policies and to interoperate subject to service level agreements (SLAs). Services define roles and implement formally specified policy to control role activation and service use; users must present the required credentials, in an appropriate context, in order to activat ...

Keywords: Certificates, OASIS, RBAC, distributed systems, policy, role-based access control, service-level agreements

13 LifeLines: visualizing personal histories
Catherine Plaisant, Brett Milash, Anne Rose, Seth Widoff, Ben Shneiderman
April 1996 **Proceedings of the SIGCHI conference on Human factors in computing systems: common ground**

Full text available: pdf(1.14 MB) html(40.15 KB) Additional Information: full citation, references, citings, index terms

Keywords: history, justice, medical record, overview, personal record, screen design, screen management, timeline, visualization

14 Documents and professional practice: "bad" organisational reasons for "good" clinical records
Christian Heath, Paul Luff
November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work**

Full text available: pdf(1.36 MB) Additional Information: full citation, references, citings, index terms

Keywords: categorisation, documentary practices, record keeping

15 Computerized medical records, production pressure and compartmentalization in the work activity of health center physicians
Yrjo Engestrom, Ritva Engestrom, Osmo Saarelma
January 1988 **Proceedings of the 1988 ACM conference on Computer-supported cooperative work**
Full text available: pdf(1.46 MB) Additional Information: full citation, references, citings, index terms

16 Using the Internet to improve knowledge diffusion in medicine
William M. Detmer, Edward H. Shortliffe
August 1997 **Communications of the ACM**, Volume 40 Issue 8
Full text available: pdf(576.05 KB) Additional Information: full citation, references, citings, index terms, review

17 Session 5: less is more: Information security is information risk management
Bob Blakley, Ellen McDermott, Dan Geer
September 2001 **Proceedings of the 2001 workshop on New security paradigms**
Full text available: pdf(756.49 KB) Additional Information: full citation, abstract, references, citings, index terms

Information security is important in proportion to an organization's dependence on information technology. When an organization's information is exposed to risk, the use of information security technology is obviously appropriate. Current information security technology, however, deals with only a small fraction of the problem of information risk. In fact, the evidence increasingly suggests that information security technology does not reduce information risk very effectively.This paper argues t ...

18 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

19 An example of using computer simulation to predict pharmaceutical costs and outcomes
Michael T. Halpern, Ruth E. Brown, Dennis A. Revicki, Alkis G. Togias
December 1994 **Proceedings of the 26th conference on Winter simulation**
Full text available: pdf(526.60 KB) Additional Information: full citation, references, index terms

20 Full Technical Papers: A virtual patient based on qualitative simulation
Marc Cavazza, Altion Simo
January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces**
Full text available: pdf(613.72 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we describe the development of a virtual human to be used for training applications in the field of cardiac emergencies. The system integrates AI techniques for

simulating medical conditions (shock states) with a realistic visual simulation of the patient in a 3D environment representing an ER roomIt uses qualitative simulation of the cardio-vascular system to generate clinical syndromes and simulate the consequences of the trainees therapeutic interventions. The use of knowledge- ...

Keywords: artificial intelligence in medicine, emotional interfaces, interface agents, qualitative simulation, virtual humans

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